

19971130.qrp v00_n925.qrs.971130

Date: Sun, 30 Nov 1997 19:03:12 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 925

QRP-L Digest 925

Topics covered in this issue include:

- 1) [31548] Re: Pixie2 Circuit Board Creation!
by Bob Roach <KE4QOK@worldnet.att.net>
- 2) [31549] Re: Pixie2 Circuit Board Creation!
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 3) [31550] Re: Pixie2 Circuit Board Creation!
by bruce muscolino <w6toy@pop.erols.com>
- 4) [31551] Wanted or Trade-Tandy 1500 Notebook XT
by ka7you@juno.com
- 5) [31552] Ultimate QRP bird
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 6) [31553] 17M Nov 29, 1997
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 7) [31554] Re: HB: Marlin P Jones INFO
by kt3a@juno.com
- 8) [31555] Easy Circuit Board Etching
by kd7s@psnw.com (Bill Jones)
- 9) [31556] QRP DX
by Jim <kj5tf@mctc.com>
- 10) [31557] What antenna tuner topology? (beginner's question)
by Stephen Trier <sct@po.cwru.edu>
- 11) [31558] Re: Pixie2 Circuit Board Creation!
by John Horton <jhorton@primenet.com>
- 12) [31559] OHR100A Kit Review [long]
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 13) [31560] OHR100A addendum
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 14) [31561] Re: HB: Marlin P Jones INFO
by "Ron Smith" <resmith@primenet.com>
- 15) [31562] Icom AT-180 Auto tuner reports
by "Kelly Ellison" <kelman@dialnet.net>
- 16) [31563] Re: OHR100A Kit Review [long]
by "Ken Hanks" <kennfd@ibm.net>
- 17) [31564] ALASKA & the 10.7 CM Solar Flux
by Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
- 18) [31565] Re: KA80KH Fox Log
by "Tim Ahrens" <tahrens@inetport.com>
- 19) [31566] Need a regen schema

- by David Adams <adamsclan@netgate.net>
- 20) [31567] Nills' Cut and Paste. Stop it, I can't breathe!
by Bill Howell <bhowell@mail.utexas.edu>
- 21) [31568] Re: Solar Summary 11-25/M1 flare
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
- 22) [31569] Re: Hammers, ON4UN, and radials
by k5zty@juno.com
- 23) [31570] Norcal Paddles done...
by PDouglas12@aol.com
- 24) [31571] Verne Wright, W6MMA's St. Louis Vertical
by Vernon Wright <vlw@foothill.net>
- 25) [31572] Re: Tapes for new hams
by n5inz@juno.com (John M Andrews)
- 26) [31573] Re: What antenna tuner topology? (beginner's question)
by n5inz@juno.com (John M Andrews)
- 27) [31574] re: Looking for DDS article in SPRAT
by ddw2@Lehigh.EDU (Dah-Jyuu D. Wang)
- 28) [31575] re B&W antenna
by Ed Tanton <n4xy@bellsouth.net>
- 29) [31576] Norcal 40A Book?
by Mike P <N00DK@compuserve.com>
- 30) [31577] NICE JOB N/T (KB7MBI)
by "Earl W. Murphy" <aa385@gpfn.sk.ca>
- 31) [31578] Dan's Small Parts and Kits
by Jerry Parker <jparker@fix.net>
- 32) [31579] Re: Tapes for new hams
by "Steve Hurst" <shurst@magiclink.com>
- 33) [31580] (Fwd) [CW] Is it possible to be left or right "eared" for CW?
by Leon Heller <leon@lfheller.demon.co.uk>
- 34) [31581] sputnik
by "Daniel L. Evans" <dlevans@hsonline.net>
- 35) [31582] Sacred SMIRK homepage QRL
by MNHopkins@aol.com
- 36) [31583] N/T+ Foxhunt of 30 NOV 0000-0200 UTC
by ARDUJENSKI@aol.com
- 37) [31584] Trade sportcat scanner for qrp
by arol1@juno.com (arol b hill)
- 38) [31585] Second Reminder for the December Spartan Sprint
by Russ Carpenter <russ@natworld.com>
- 39) [31586] Pixie II
by N9YAI@aol.com
- 40) [31587] Regenerative Receivers
by George Dobbs <g3rjv@gqrp.demon.co.uk>
- 41) [31588] G3RJT QSL
by George Dobbs <g3rjv@gqrp.demon.co.uk>
- 42) [31589] Turkey Day Beacon
by beacon_wb8ygg@juno.com (Bradley S. Mitchell)
- 43) [31590] Re: Need a regen schema

by gsurrency@juno.com (Gary Surrency)

44) [31591] Fox 2 night ??
by "Steve Hurst" <shurst@magiclink.com>

45) [31592] Mag wire and torroid questions
by Paul Helbert <phelbert@rica.net>

46) [31593] Re: Need a regen schema
by Dave Sjolin <sjolin@swbell.net>

47) [31594] OHR100A
by N4JS <n4js@pobox.com>

48) [31595] Fox 2 night ??
by "Wilford D. Lindsey" <70511.3041@compuserve.com>

49) [31596] Re: Mag wire and torroid questions
by Ed Tanton <n4xy@bellsouth.net>

50) [31597] Re: Solar Flare - The novel / emp
by "Dean T. Miller" <dtmiller@dsmnet.com>

51) [31598] Yaesu auto t;uner 4 sale/swap
by W7LS <w7ls@blarg.net>

52) [31599] Kitchin Regen RX of Handbook
by MNHopkins@aol.com

53) [31600] Re: KA80KH Fox Log
by "Michael A. Gipe" <mgipe@reliablemeters.com>

54) [31601] Re: 17M Nov 29, 1997
by kt3a@juno.com

55) [31602] It's alive!!! It's alive!!!
by Ed Tanton <n4xy@bellsouth.net>

56) [31603] AK to NJ !
by "W2MY & W2MBY" <n2mnn@spacegate.com>

57) [31604] 2N2 - DSB radiation in VA!
by "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>

58) [31605] Re: What antenna tuner topology? (beginner's question)
by Wa2eaw <Wa2eaw@aol.com>

59) [31606] Suggestions for window feed-throughs?
by Rich Mulvey <mulveyr@frontiernet.net>

60) [31607] Re: 17M Nov 29, 1997
by Monte Stark <ku7y@sage.dri.edu>

61) [31608] Few questions
by William Wyatt <wbw95k@timon.acu.edu>

62) [31609] Re: KA80KH Fox Log
by Chris Cartwright <ccart@dns.vidtel.com>

63) [31610] Re: (Fwd) [CW] Is it possible to be left or right "eared" for CW?
by nilsbull@juno.com

64) [31611] Re: Few questions
by Hal Maney <maney@ridgefield-ct.com>

Date: Sun, 30 Nov 1997 00:24:27 +0000
From: Bob Roach <KE4QOK@worldnet.att.net>

To: rsorge@phoenix.net, qrp-1@Lehigh.EDU
Subject: [31548] Re: Pixie2 Circuit Board Creation!
Message-ID: <19971130002349.AAJ17355@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:57 PM 11/27/97 +0000, you wrote:

>I just completed the transfer of the circuit to my circuit board using the
blue
>film method that Frank offered to the group recently. 100% success. The
circuit
>transferred as described without a problem. I followed his instructions
and used
>a timer. When I etched the board I used Radio Shack solution at room
temperature.
> It took about twice as long as they recommended on the instructions.

I had the same experience. It took about 40 vs 20 minutes to etch the board
with RS chemical at room temp and I still had to scrape one copper bridge
that didn't quite clear. I wonder if it is the brand of chemical or some
other thing. I am going to rig up some kind of continuous agitation before
my next project to see if that helps.

(o o)

-----o00_()_00o-----
73 es TNX Advanced, W5YI/ARRL VE, QRP-L#1264, AR QRP#83
KE4QOK KE4QOK@worldnet.att.net
Bob ke4qok@juno.com

136 Hermitage Road
Newport News, VA 23606
(757)930-0348

When the student is ready.....
The teacher will appear.

Date: Sat, 29 Nov 1997 19:45:16 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: Bob Roach <KE4QOK@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31549] Re: Pixie2 Circuit Board Creation!
Message-ID: <Pine.GS0.3.96.971129194233.20633A-1000000@hercules.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

My two cents on pcb etching.

I use a zip lock plastic bag. I find that I use less etchant, I can heat it up under a faucet in the basement utility sink. I put the PCB in the bag, seal it and agitate it in the bag. I usually use a photographic tray to hold hot water that keeps the bag warm. When I etch at a cooler temp it does a crappy job.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sat, 29 Nov 1997 19:49:42 -0500 (EST)
From: bruce muscolino <w6toy@pop.erols.com>
To: KE4QOK@worldnet.att.net
Cc: QRP-L@Lehigh.EDU
Subject: [31550] Re: Pixie2 Circuit Board Creation!
Message-ID: <2.2.16.19971129203804.2da776d4@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Many years ago I discovered that Ferric Chloride is a pretty slow etch chemical when used at room temperatures. I can't remember the times involved, but I remember the solution. I put the board and the Ferric Chloride in a "plastic tray" and floated that inside a larger pan filled with hot water. The water heated the etch solution and it worked faster. I also agitated the board being etched so it would more often be in contact with fresh solution.

I have also seen plans for etch tanks, for those of you who want to do a lot of boards, where the tank is heated and air is bubbled through the solution so fresh solution is always in contact with the board. Sort of what I did but more automated.

The major disadvantage of long etch times is that you will undercut the edges of your circuit. With fine lines this may undercut all the way through leaving an open or potentially open circuit.

Also, DO NOT ETCH IN THE HOUSE. Ferric Chloride is highly corrosive. I

thought I was safe etching on the stove (I'm a bachelor) until a week or two later I looked at a very favorite carbon steel kitchen knife -- RUST! Do it outside, where there is plenty of ventilation. I know, it's a real pain during the winter, but it's tons safer.

73

Date: Sat, 29 Nov 1997 19:47:42 EST
From: ka7you@juno.com
To: QRP-L@Lehigh.EDU
Cc: VHF@W6YX.stanford.edu, WSWSS@QTH.NET, Wigles@worldnet.att.net, JohnTTY@aol.com
Subject: [31551] Wanted or Trade-Tandy 1500 Notebook XT
Message-ID: <19971129.170037.20031.24.KA7YOU@juno.com>

I have a Tandy 1500 (XT type) notebook computer with a broken display. I would like to find a replacement display (basket case) or I'll trade the whole thing: hard drive, batteries and extra 1meg ram chip for any QRP or VHF/UHF goodies-cheap. I just hate to throw it away. Someone can probably use some parts.

It is (was) an excellent rig for logging. It runs on very little power, and generates almost no RFI, but it wasn't made to drive over....even then, it only cracked the LCD display. I guess the padded case helped, HI! HI!

7 3,

Rod Johnson KA7YOU from CN97ak near Issaquah, Wa. 160M thru 1296 MHz (3456MHz still in the wings)
NWQRP#120 QRP-L #844 NorCal #2007

Date: Sat, 29 Nov 1997 20:50:28 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [31552] Ultimate QRP bird
Message-ID: <Pine.LNX.3.95.971129204627.22271A-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Listen for Sputnik 40, beaconing on 145.82...just a beep beep beep sound...

Commemorates 40th anniversary of original Sputnik, and has only about 2 weeks left before the batteries die.

Keplerian elements available from AMSAT, and the bird is called RS-17.

Happy hunting!

OB QRP - Wkd CQ WW CW QRP from W3EAX - 10 was open!!!

Even worked Greenland (need it for myself, unfortunately used the club call)

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Sun, 30 Nov 1997 01:45:00 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [31553] 17M Nov 29, 1997
Message-ID: <199711300145.BAA11684@chuck.dallas.sgi.com>

Gang,

What a day to remember. Saw where the solar flux was up to 116 as broadcast by WWV at 18 minutes past each hour.

First thing out of the bag was a 20 minute QSO with a G4 on 17M. His 599 (really strong signal) and my 529. His 300W and my 0.95W with GM-17 from NN1G. Nice chat and the band was in good shape. There was some other DX but I'm not going to start a gold rush on 17M. :-)

Then heard later in the morning a KE6 calling CQ about 18-20wpm using a straight key. Gave 'em a call. A 10 year old YL who was in a race with her mom, also a ham, on 17M for most contacts and states. She was doing very well and I got a hello relayed from her brother just before she went QRT to have breakfast with the family. Now that was exciting. So if you work 17M a lot and hear any KE6's after school hours then you might be of help to her in her quest to beat her mom. Mom must be super smart to give the young 'un some goal to shoot for.

And people say the younger generation isn't interested in

ham radio. Nice to run into a good kid on the path to being a first class operator.

Solar predication for the next few days

IV. PENTICTON 10.7 CM FLUX
OBSERVED 29 NOV 112
PREDICTED 30 NOV-02 DEC 125/125/120

So while the big guns are doing the contest and if you aren't on 10M or 15M with them, then get on the WARC bands. The propagation is good and the A and K indices are 0 (zip, nada). It was worth the wait and plowing through the minimum. Makes you appreciate it more when the old sun starts acting up, but along with that comes the solar flares so be patient on some days.

Oh, I see. You've been putting off building something for the high bands. Hmmmmmmmm. No faith in the predictions. :-)

Speaking of the big guns, but is it my imagination or what but the code speeds seem to be a little higher than SS? Guess the shorter exchange makes it easier to speed up.

FYI

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Sat, 29 Nov 1997 21:00:01 EST
From: kt3a@juno.com
To: resmith@primenet.com
Cc: qrp-1@Lehigh.EDU
Subject: [31554] Re: HB: Marlin P Jones INFO
Message-ID: <19971129.205650.5415.2.kt3a@juno.com>

Yes, they have a web site, and more....

<http://www.mpja.com>

catalog requests to: catalog@mpja.com

tech info: support@mpja.com

phone for technical info: 561-848-8236
international: 001 561-848-8299

I never dealt with them, but I got about 15 good recommendations,
and no bad comments.

Cameron C.R. Bailey <><
Amateur Radio, KT3A, QRP-L #7
kt3a@juno.com
Mount Wolf, Pennsylvania

On Fri, 28 Nov 1997 20:32:39 -0700 "Ron Smith" <resmith@primenet.com>
writes:

>This is a multi-part message in MIME format.

>

>-----=_NextPart_000_0053_01BCFC3C.C60FE8E0

>Content-Type: text/plain;

> charset="iso-8859-1"

>Content-Transfer-Encoding: 7bit

>

>Does Marlin P. Jones have a Web site?

>

>Ron

>

>-----Original Message-----

>From: George T. Baker <w5yr@swbell.net>

>To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

>Date: Friday, November 28, 1997 7:50 PM

>Subject: Re: HB: Marlin P Jones?

>

>

>>kt3a@juno.com wrote:

>>>

>>> I just got a catalog from an outfit called Marlin P. Jones in Lake

>Park,

>>> FL.

>>> It looks like a neat place for the homebrew guy. Can anyone

>recommend

>>> them as a good place to deal with?

>>>

>>> Cameron C.R. Bailey <><

>>> Amateur Radio, KT3A

>>> kt3a@juno.com

>>> Mount Wolf, Pennsylvania

>>

>>Been good with me . . .excellent service.

>>

>>--

```
>>73, George
>>W5YR
>>AutoPOWER Systems
>>Fairview, TX
>>
>>
>
>-----=_NextPart_000_0053_01BCFC3C.C60FE8E0
>Content-Type: application/x-pkcs7-signature;
>  name="smime.p7s"
>Content-Transfer-Encoding: base64
>Content-Disposition: attachment;
>  filename="smime.p7s"
>
>
>-----=_NextPart_000_0053_01BCFC3C.C60FE8E0--
>
>
>
```

Date: Sat, 29 Nov 1997 18:06:47 -0800 (PST)
From: kd7s@psnw.com (Bill Jones)
To: qrp-1@Lehigh.EDU
Subject: [31555] Easy Circuit Board Etching
Message-ID: <199711300206.SAA19595@sierra.psnw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Friends,

I fabricate enough circuit boards to justify building an etching tank. My tank was made from scraps of ABS plastic welded together. However, any rigid plastic container would work well. To keep the etchant solution moving I bought a cheapie aquarium pump and bubble the ferric chloride. The ferric chloride is heated to about 90 degrees before etching. The board to be etched rests on several glass marbles on the bottom of the tank. The tank was fun to make, cheap and works very well.

=====
Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com
=====

Date: Sat, 29 Nov 1997 20:19:08 -0600
From: Jim <kj5tf@mctc.com>
To: qrp-1@Lehigh.EDU
Subject: [31556] QRP DX
Message-ID: <3480CD1C.7FA9@mctc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can anyone help me find QSL info on RK0FWL ?
I looked in the places I know.
I wrked him in the CQWW test on 15M at 23:23Z today... 4 watts Jim

Date: Sat, 29 Nov 1997 21:16:11 -0500
From: Stephen Trier <sct@po.cwru.edu>
To: qrp-1@Lehigh.EDU
Subject: [31557] What antenna tuner topology? (beginner's question)
Message-ID: <3.0.1.32.19971129211611.009bd440@pop.cwru.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

Afer using borrowed stations for a few years, I'm trying to set up my first station at home. It has to be low-profile, because I live in a third-floor apartment with outside antenna restrictions. (My landlord doesn't mind my radio stuff as long as it's inside, fortunately.) I want to build an antenna tuner, but I'm befuddled by the array of topologies in the books. Could someone provide some advice?

Ingredients I have on hand are four ~350 pF air-variable capacitors and an old rotary inductor of unknown value. (The rotary inductor's coil is 35.5 turns, 4 inches long, on a ceramic form about 2 inches in diameter.)

I'm planning to operate on the 40m and 30m bands, strictly at QRP levels. For antennas, I'm thinking of trying small loops, short dipoles, and perhaps short random wires tossed out the window after dark.

My first thought is to build a pi- or T-network, since I have the parts for either. What are the tradeoffs between these? Is one a better choice than the other for the antennas I'm planning to use? Is there some other tuner design I should consider, given the parts I have available and antennas I'm

planning to try?

Thanks for any help!

Stephen

--

Stephen Trier KG8IH
sct@po.cwru.edu

Date: Sat, 29 Nov 1997 19:37:47 -0700
From: John Horton <jhorton@primenet.com>
To: KE4QOK@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31558] Re: Pixie2 Circuit Board Creation!
Message-ID: <3480D17B.9B2E78DF@primenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

HI,

If you are going to use Ferric Chloride to make PC Boards you can heat it up to about 150 degrees and agitate. The heating really helps the etching time. I used an hot plate and a Pyrex dish and have made several boards this way. You should do this in a well ventilated room or out doors if possible.

Other solutions I don't know about. Be sure to dispose in a proper manor. Don't pour Ferric chloride down the sink as it will eat the metal plumbing. I'm sure there are other environmental concerns.

Have fun and good luck.

De KE7CW

Date: Sun, 30 Nov 1997 02:54:03 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU

Subject: [31559] OHR100A Kit Review [long]
Message-ID: <199711300254.CAA11813@chuck.dallas.sgi.com>

Gang, here is my review of the new Oak Hills Research OHR100A transceiver kit for 30M.

Review of Oak Hills Research OHR100A 30M CW Transceiver Kit
Review Version 1.00
Chuck Adams, K5FO
November 29, 1997

MFR: Oak Hills Research
Address of MFR: 20879 Madison Street
Big Rapids, MI 49307
616.796.0920 phone number
Designer: Dick Witzke, KE8KL
Model: OHR100A
Size: 14.8cm x 13.5cm pc-board
6.25" x 6.25" x 2.7" case size
Sorry for the change in units, couldn't find the ruler.
Weight: 23.6 ounces for assembled kit with case
PC board: Double sided plated-through, solder-masked
and silk-screened PC board
Manual: 19 pages 8.5x11" double sided manual + 12 pages
parts listings and schematics and illustrations
Power : 12 to 14VDC
RX Drain: 70mA
TX Drain: ~850mA on transmit for 5W output at 13.6V
Ant Connection: SO-239 connector
Pwr Connection: Coaxial DC Power Jack
Key Connection: RCA Phono Jack
Ear Phones: 1/8" Stereo Phone Jack (internal jumper for mono)
Speaker: 1/8" Phone Jack for external speaker (speaker not supplied)
Modes: CW only
Kit: Yes. Complete with case and internal parts
Band: 30M with other bands 40M, 20M, and 15M available.
LO/VFO: Osc with 19.100-19.170MHz out (10.100-10.170MHz tuning)
Drift: Less than 300Hz in 20 minutes from a cold start with
cover removed at 65 degrees F. Zero drift thereafter.
Measured with WWV receiver and Heath IM-2410 counter.
Dial Range: Marked 0 to 70
RX: SuperHet
XMTR: Yes. Rated 5W. Measured 2W into dummy and 2W into
antenna at 12.3V.

Filter: Four crystal filter at 9.000MHz
 Selectivity: About 1500Hz-350Hz variable from front panel.
 RIT: Yes. Up and down about 1 KHz each way.
 Gain: Audio and RF controls on front panel.
 AGC: No.
 Preamp: No
 Atten: No
 Builtin SPKR: No
 Meter: No
 S Tone: Sine wave generated at audio levels. Adjustable level and adjustable frequency.
 VFO: Yes. Covers 70KHz or a little more of the bands.
 Output: 5.0W adjustable (with internal pot adjustable through hole in rear of case) to lower levels down to 0 output.
 Internal Keyer: No.
 QSK: Yes
 Price: \$99.00 US (see web page <http://www.ohr.com/>)
 \$5.50 S&H for the US, call for pricing for DX shipping
 Availability: From Oak Hills Research at above address.
 Options: None at this time. DD-1 for extern digital display additional.
 Date of Review: November 29, 1997
 Author: Chuck Adams, K5FO
 Comments: Another super rig from Oak Hills Research.

Front Panel: Tuning 10.1 to 10.170MHz, Audio Gain, RF Gain, Variable Bandwidth for IF, and RIT.
 Rear Panel: ANT (SO-239), power, OSC out (RCA phono), Key (RCA), Speaker out (1/8" jack), and Phones out (1/8" jack), and power adj hole to read pot with straight bladed screwdriver.

The PC board shop that Oak Hills Research uses has got to be one of the top 10 in the world. The quality is outstanding. Green solder masked and with the white silkscreen is a joy to work with and doesn't cause a great deal of strain on the eyes. The registration and alignment of the silkscreen along with the crisp fine print makes the assembly process a joy.

This kit, as the other OHR kits over the years has step by step check 'em off as you go instructions. For the inexperienced builder there is a pictorial on winding toroids (there are 11 in this kit) in the additional 10 pages and there are two pages of 'parts pictorials' showing drawings of each part. This is like the old Heathkit manuals and in fact Dick Witzke uses an illustrator that used to do the Heath manuals.

I went through the assembly process without a single hitch. The instruction manual is complete and fairly detailed so shouldn't be any trouble for the builder. Just use a good 25W soldering iron with 63/37 or 60/40 0.031" diameter solder suitable for electronic assembly. Don't use any larger iron

and use the best small tip you can find.

The parts are first class. The tuning pot is a sealed 100K part made by Precision in Canada. A real nice pot and I like the feel. It is wirewound and will last longer than the carbon deposit type pots that I have used on other rigs. If you buy the digital display, then you may want to get a ten turn pot (there is plenty of room) and have additional fine increment tuning.

I fired the OHR100A up and aligned it in short order and nothing was installed incorrectly and no problems encountered. Having a frequency counter or the OHR DD-1 display will help in the frequency alignment or a general coverage receiver or another 30M rig. Dick has two builtin RF probes in the 100A, i.e. 1N34 diodes in place on the board with test points that allow you to peak the transmit and receive chain signals without a scope. A neat idea. Works great just using a DVM for the alignment. So you don't need an O-scope to set it up.

As I don't have a 13.6V supply I used a 12.3V gel-cell and was able to get a little more than 2W output, so you will need a little more voltage to get the 5W output, but you know that I don't use that much power anyway.

Additional technical information for the more technically inclined.

1. Vackar VFO running from 5.100 to 5.170MHz mixed with 14MHz to get the 19MHz range.
2. 9MHz IF with four-crystal Cohn filter variable from 1500-350Hz.
3. NE602 first mixer in receiver with MC1350 followed by another NE602 and 14-pin LM380N-8 for audio for headphones and 14-pin LM380N for speaker. Phones disengage the speaker output.
4. Transmitter chain uses NE602 followed by couple of NPN amp stages and 2SC2078 for the final PA. This puppy keys QSK smooth and I had GM-30 listening to it key at 50+wpm. Smooth and clean.
5. Reception is on lower sideband, i.e. you tune down in freq and the received tone goes up. Dial tunes left to right for increasing frequency.

Receiver is great and can hear anything the Corsair I or the GM-30 can hear on 30M. So this isn't a rig that is short on performance.

I paid full price and I don't get anything for this review. It is provided for the group at large. I know that it is getting close to getting the final list off to Santa Claus..... I got it built the night before I left for Cancun and didn't have time to write up and post at that time.

FYI

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Sun, 30 Nov 1997 02:59:00 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-1@Lehigh.EDU
Subject: [31560] OHR100A addendum
Message-ID: <199711300259.CAA11851@chuck.dallas.sgi.com>

Gang,

Just after punching the send button I thought of something else.

The Power, 2 RCA Phono Jack, 2 1/8" (3.5mm) stereo jacks, and trim power for power adjustment are all PC board mounted.

The front controls are all chassis mounted and connected with to the pc board through the use of molex connectors. Like in the previous OHR100 series.

FYI
Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Sat, 29 Nov 1997 19:43:44 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <kt3a@juno.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [31561] Re: HB: Marlin P Jones INFO
Message-ID: <01bcfd39\$c69136e0\$1a22a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the info and recommendations Cameron. They do look promising.

72

Ron

Date: Sat, 29 Nov 1997 21:21:54 -0600
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-l@Lehigh.EDU>
Subject: [31562] Icom AT-180 Auto tuner reports
Message-ID: <199711300320.VAA15790@shell.dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi all,
I recently have acquired an Icom-706 and really like it. Are there any QRPers using the AT180 autotuner with your IC-706 on QRP? Does it work on low power (5Watts) or does it take 10 watts to run the auto-tuner? Will the tuner work with a wide range of SWR? Please respond direct, I would really appreciate it.

Kelly Ellison
WB0WQS
SW Missouri
QRP-L #702

Date: Sat, 29 Nov 1997 22:51:56 -0500
From: "Ken Hanks" <kennfd@ibm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [31563] Re: OHR100A Kit Review [long]
Message-ID: <01bcfd43\$4d818020\$6c7e2581@kh>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chuck:

Nice review of the OHR 100a. I recently built an OHR WM-2 and was impressed with the quality of the board, components, case, and manual.

Now, I just need to decide which band I want. 15 sounded really good today during the CQWW.

72,
Ken Hanks K1XS@ibm.net

Date: Sat, 29 Nov 1997 18:55:16 -0900 (AST)
From: Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
To: qrp-1@Lehigh.EDU
Subject: [31564] ALASKA & the 10.7 CM Solar Flux
Message-ID: <v03007800b0a6091f9944@[206.163.67.27]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang...

Yippee !!! When 10 Meters opens up to my part of the world it is a day for celebration... Four days in a row now 10M has been open for several hours during the day... 15M has been hopping as well, and 20M is its norm... All bands have been pretty much closing down at night with 20M reopening over the pole later... The QRP path is working on 10M, worked stations from FL to the PNW with VE's LU's, & CX thrown in for icing...

IV. PENTICTON 10.7 CM FLUX
OBSERVED 29 NOV. 112
PREDICTED 30 NOV. DEC. 125/125/120

Looks like more of the same for the next few days... I will be throwing out a CQ now and again on 28.060 sometime between 1800z and 2400z tomorrow if the band opens up again... I am hearing many KL7's active between 28.300 and 28.500 if you need the SSB contact...

Lets hope that this is the start of something big... Take care and have fun... Seeya on the bands...

72 / 73 / oo's - Bruce - KL7JAF

Web Page: <http://www2.polarnet.com/~bhopskins>

"Alaska QRP Club" - Web Page: <http://www2.polarnet.com/~bhopskins/akqrp>

Date: Sat, 29 Nov 1997 19:35:57 -0600
From: "Tim Ahrens" <tahrens@inetport.com>
To: <ka8okh@som-uky.campus.mci.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31565] Re: KA80KH Fox Log
Message-ID: <199711300402.WAA19269@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hey Mike - (K1MG) oh well!

Hey Rich, Great Job! Congrats!!

Tim W5FN

> 88 N8VAR 0259 559 OH RON 263

Date: Sat, 29 Nov 1997 20:18:13 -0800
From: David Adams <adamsclan@netgate.net>
To: kt3a@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31566] Need a regen schema
Message-ID: <3480E905.135F6C5C@netgate.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings!

My mother-in-law is always laughing at me asking why I need all those doo-dads and bits (read that as resistors, caps, etc).

I thought to amuse and be vaguely annoying, I'd throw together a nice regen receiver for christmas, but I can't seem to find a decent schematic on which to base one...

So, anyone have anything lying about they could point me to? I'm looking for something that functions well and covers a useful bit of the

broadcast sw bands...oh...and it's my inlaws so LOTS of squeal!

73 de dave, n9uxu

--

David J Adams, N9UXU adamsclan@netgate.net
Amateur Radio, Flow Cytometry, Digital Photography and Parrot enthusiast

<http://u1.netgate.net/~adamsclan>

Date: Sat, 29 Nov 1997 22:20:02 -0600
From: Bill Howell <bhowell@mail.utexas.edu>
To: qrp-l@Lehigh.EDU
Subject: [31567] Nills' Cut and Paste. Stop it, I can't breathe!
Message-ID: <3.0.1.32.19971129222002.006a1d44@mail.utexas.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Nils WB8IJN &c Wrote:

hmmm . . . carols sung by copying &
pasting signals from Cuba . . . Blurp chowpit chow pi-Chowwww Chowwwwpit
. . . yeah, that's the ticket . . .

You know how when you laff so hard you can't get air?

Oxygen! Bring me oxygen!

Bill Howell
University of Texas at Austin
Fine Arts
Electronic Maintenance
Austin, Texas
N5ALO QRP-L #415

Date: Sat, 29 Nov 1997 18:53:00 -0600
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: pharden@aoc.nrao.edu
Cc: qrp-1@Lehigh.EDU
Subject: [31568] Re: Solar Summary 11-25/M1 flare
Message-ID: <M2310442.007.g013b.1.971130044845Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Paul:

Once again you come through with a helpful post on the intricacies of solar phenomena. We get so many posts that are just bald statements and not very helpful.

I once read a comment that data does not become information until it is interpreted. Makes sense to me.

Thanks again, Paul.

72, Bob N6WG and 01' Kenwood

Date: Sat, 29 Nov 1997 23:42:28 EST
From: k5zty@juno.com
To: W5HNS@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [31569] Re: Hammers, ON4UN, and radials
Message-ID: <19971130.044747.5383.0.k5zty@juno.com>

G.E. Henry

Are you asking about improving the radials on your 1/4 wave vertical that is elevated 15 ft.? An elevated vertical needs radials cut to a resonant length on the band you are trying to work and 4 for each band is enough. They are a tuned part of the antennna. It's ground mounted verticals that need the conductive ground cover around the base of the vertical. Those radials are random length, and the more the better. I use a Butternut HF6-V elevated about 18 ft. with resonant radials on 40 mtrs and just worked OK1RF with 5 watts on the first call. Been having fun doing that this weekend during the CQWW. You ought to catch up on 40 this weekend. Good luck ,
Bill, K5ZTY
Houston,TX
k5zty@juno.com

Date: Sat, 29 Nov 1997 23:48:29 -0500 (EST)
From: PDouglas12@aol.com
To: qrp-1@Lehigh.EDU
Subject: [31570] Norcal Paddles done...
Message-ID: <971129234828_1115777746@mrin79>

Well gang, mine won't win the big beauty contest when held up against the ones the fellers are doing with graduated rouges, but they are certainly handsome enough next to my Benchers, my borrowed square-based Vibroplex, my old beat-up Hamkey, and my shiny-but-chintzy MFJ imitation bencher paddles. And the Norcals feel as good as any of them. Matter of fact, I got lucky, because the magnet press-fit in place by firm hand pressure--that's accuracy in machining! And the bearing clearance on the dit paddle was perfect. That made it easy to see the amount of clearance I could shave down to on the dash paddle. I did three passes with the fine triangular file on the bearing; tried it; it was better, but not quite...So, off it came again, for three more strokes with the fine file, resulting in removing, in all, barely enough to see new metal, and it was perfect when I put it back. I could see wobble along the length of the arm when I tried to "send" (mostly rocking in the vertical plane) when the bearing was a mite long. This wobble will disappear when you have it right, but geeze, you have to be careful not to go too far. When you have it right though, and the contacts are set, and the magnet distance is adjusted, those little paddles are really excellent. No toy this one. They almost don't move between open and closed on each side.

Thanks to both Dougs for brilliant and tireless work, and Wayne Smith's design, and Paul and Jim Cates. I figure you guys can do almost anything.

I think you ought to do a Norcal kit for a faster-than-light ship, or a time machine or something useful like that. I figure you can get the kit prototyped by the spring, and sell it for less than a hundred without the case. I'd buy one. I'll just make my check payable to Jim Cates.

72,
Preston WJ2V

Date: Sun, 30 Nov 1997 20:49:14 -0800
From: Vernon Wright <vlw@foothill.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31571] Verne Wright, W6MMA's St. Louis Vertical
Message-ID: <348241CA.852B7F5D@foothill.net>
MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="-----93320EF4D4EFB2F8ECDA0600"

This is a multi-part message in MIME format.

-----93320EF4D4EFB2F8ECDA0600

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

here is the web page for my St. Louis Vertical Upgrades.

<http://www.fix.net/~jparker/w6mma.htm>

-----93320EF4D4EFB2F8ECDA0600

Content-Type: text/html; charset=us-ascii; name="w6mma.htm"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline; filename="w6mma.htm"

Content-Base: "http://www.fix.net/~jparker/w6mma.htm"

<HTML>

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<TITLE>Verne Wright, W6MMA's St. Louis Vertical</TITLE>

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St. Louis Vertical Upgrades

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<center>

by Verne Wright, W6MMA

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</TABLE>

<center>

Pictures of Vern's Kit in use</
a>

</center>

<center>

What others say about Vern's
Kit

</center>

<center>

Detail drawing of the SLV with
Vern's Mod

</center>

<blink>
NEWS FLASH
</blink>
</center>

Vern has purchased for your convenience, SD-20 20' poles and is making them available to you with either the 40 or 80 meter coil kit. Check out the priceing and shipping below.

</CENTER>

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This is what the originator of the St. Louis Vertical has to say about Vernes's Upgrades:

Dear OM/YL,

Just an early advisory that W6MMA is going to sell copies of his coil mods which upgrade the performance of the St. Louis Vertical. Since my first report several weeks ago there are now two versions. Either coil converts the original SLV design into a major-league antenna!

The larger 10-80M coil is 1 1/2" in diameter and 16" long. It will even cover 160M with an extension on the wire radiator. This heavy-duty design is suited for either portable or permanent installation.

The new 10-40M coil is 1 1/2" in diameter and 7" long. It is light and compact thus perfect for portable operating with emphasis on backpackers, hikers, bicyclists etc.

The classic tinned wire coils are machine inletted into a pvc form and feature a sliding tap. The settings are repeatable which means in most instances the tuner can be left at home.

The coils slip fit over the second section of the SD-20 collapsible

fishing pole. Both the design and workmanship are first-class. Unlike the SLV's original twin-lead coil these solid wire coils are positioned at about 5 1/2' to minimize ground losses.

A well-designed two part antenna base assembly accompanies each coil. The upper base section slips on the bottom of the collapsible pole and should be glued/epoxied in place. It provides a BNC antenna fitting plus attachment points for the upper and lower radiator and the radials.

The lower base section includes a heavy-duty gutter spike and easily holds the extended antenna upright. This part slides into the coil for storage when the SLV is disassembled.

The 10-80M coil is \$60 and the 10-40M coil is \$50. The base set accompanys each coil. Shipping by Priority Mail is \$5.00 for either version.

This weekend Vern Wright telephoned so I could monitor what he was hearing on the bands. The he proceded to work two contesting JA's on 20M SSB (one running a kw) with two of his SLV's operating in phase. The rig was a NorCal Cascade running three watts!

During another telecon I listened to W6MMA in California take his turns in an 80M SSB net originating in Canada. For that demo he used the Cascade and a single SLV. I've heard it all on these and several other occasions. In addition, at Vern Wright's request I conducted some FYBO-type testing here in St. Louis with excellent results. I am, as they say, a "believer"!

W6MMA monitors the QRP-List but does not have e-mail capability at this time. Try him at (916)622-2390 evenings or write to Vern Wright at 1606 Pheasant Way, Placerville, CA 95667.

The twinlead coil and balanced feedline on my original SLV get the job done. However, these custom coils upgrade the design into a truly *hot* antenna! If you decide to buy I don't think you will be disappointed.

Finally, a very specific disclaimer that I have no financial interest in these products.....but I am a very happy user!

Best regards,

de <i>Dave,</i> NF0R

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ORDERING INFORMATION
</CENTER>

<H2>
NO CREDIT CARDS

80 - 10 Meter Kit - \$60.00 plus \$5.00 shipping priority mail US

40 - 10 Meter Kit - \$50.00 plus \$5.00 shipping priority mail US

SD-20 20' Fiberglass pole sold only with a kit: \$25.00 + \$3.00 shipping

Vern Wright W6MMA - (916) 622-2390

1606 Pheasant Way

Placerville, CA 95667

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-----93320EF4D4EFB2F8ECDA0600--

Date: Sat, 29 Nov 1997 23:08:19 -0600
From: n5inz@juno.com (John M Andrews)
To: QRP-L@Lehigh.EDU
Subject: [31572] Re: Tapes for new hams

Message-ID: <19971129.230828.3214.2.N5INZ@juno.com>

Great response to the young nephew I'm trying to get started in ham radio.

Great advice. I printed out every one and handed them all to him. He's gonna be a "keeper" for ham radio. I predict good things from Steve.

Thanks, everyone.

72, John-N5INZ

Date: Sat, 29 Nov 1997 23:02:00 -0600
From: n5inz@juno.com (John M Andrews)
To: sct@po.cwru.edu
Cc: QRP-L@Lehigh.EDU
Subject: [31573] Re: What antenna tuner topology? (beginner's question)
Message-ID: <19971129.230828.3214.1.N5INZ@juno.com>

You seem to have all the "fixin's" for a great tuner it would appear.

The argument about which tuner to build goes on and on, however. One possibility, since you have a rolling inductor, would be that you look at LB Cebic's page on tuners and antennas.

You don't mention if you have a turns indicator and LB uses a clear sheet of plexi-glass for his visual indication of position on the coil. Pi,T,or other **might** depend on how much antenna you have.

Perhaps your best bet would be banana jacks and plugs to jumper the best configuration. That way you would arrive at the best solution for your antenna, ground, bands of operation, etc.

My best wishes for a great tuner,

John-N5INZ

Date: Sun, 30 Nov 1997 00:05:58 EST
From: ddw2@Lehigh.EDU (Dah-Jyuu D. Wang)
To: qrp-l@Lehigh.EDU

Subject: [31574] re: Looking for DDS article in SPRAT
Message-ID: <199711300506.AAA55768@ns3-1.CC.Lehigh.EDU>

Hello QRP-Lers:

I am looking for the DDS article appeared in SPRAT #89 (Winter 96/97) for my next homebrew project (during the long cold winter). I checked the G-QRP web site and they don't seem to have reprint for this particular article. I would appreciate a xerox copy or the #89 issue if you don't need it anymore. I would be more than happy to cover the cost for the postage and xeroxing. Thanks and 72.

DJ Wang/ KE3ZB (ex N2YKP), QRP-L #71

Date: Sun, 30 Nov 1997 00:24:27 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [31575] re B&W antenna
Message-ID: <3.0.1.32.19971130002427.00b76100@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Forward from Ray, V31XE who is not subscribed to QRP-L at the moment.

Date: Sat, 29 Nov 1997 21:29:53 -0800
From: "William R. (Ray) Colbert" <v31xe@dzn.com>
Reply-To: v31xe@dzn.com
Organization: yes
To: n4xy@bellsouth.net
Subject: re B&W antenna

Ed, I used to run about 15 or 20 of those antennas - then they were the 3.5-30 as the company had not made the 1.8-30 dipole at the time. The original balun which was a 9 or 12 to 1 balun, was originally rated by B & W to handle 2 kw pep or 1 kw ICAS. That was a SSB/CW rating, they did not take into account RTTY and in some cases AM/FM transmissions where the rating was exceeded. After replacing numerous baluns and balancing resistor networks (top white tube - either 600 or 900 ohm) (original T2FD antenna was 900 ohm, I think) they derated the system.

On your antennas breaking in the wind - when I was growing up in South Georgia and using the naturally elevated slash pine trees - about 70 - 90 ft high, to keep the antenna from breaking, I used double screen doorsprings on at least one end, between the insulator and the tieoff

rope/wire/cable, whichever. They are about 3/8 to 1/2 inch in diameter and about 16 - 18 inches long and when doubled, provide enough tension to hold a single wire antenna very horizontal. You might have to add another to support the B & W. Good luck with the new antenna.

P.S. I am not subscribed to QRP-L at the moment so I cannot post directly for all info - you may repost this if you think it worthwhile.

73 Ray

--

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"

Ray Colbert, W5XE,
OOTC 3618, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

Date: Sun, 30 Nov 1997 00:29:13 -0500
From: Mike P <N00DK@compuserve.com>
To: qrp-l@Lehigh.EDU
Subject: [31576] Norcal 40A Book?
Message-ID: <199711300029_MC2-29FB-10DD@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hello, I have not been on QRP-L for a while now but I remember a discussion on a possible book being made. I was wondering if it was ever= finished and for sale? It was on teaching radio using the Norcal 40A.
Mike N00DK

=

Date: Sat, 29 Nov 1997 23:58:45 -0600 (CST)
From: "Earl W. Murphy" <aa385@gpfn.sk.ca>

To: qrp-1@Lehigh.EDU
Subject: [31577] NICE JOB N/T (KB7MBI)
Message-ID: <Pine.SOL.3.91.971129234947.23256A@GPFN1.GPFN.SK.CA>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nice job Alan...If ever there was a nook or cranny to hide, you found it amongst the BC signals and hetrodyne...You were in and out, managed to catch you..THANKS...for the 2nd one this year. Hope to put the bite on you tomorrow night.....72/73..Earl (VE5WF) QRP-L #1076

Date: Sat, 29 Nov 1997 23:22:52 -0800
From: Jerry Parker <jparker@fix.net>
To: qrp-1@Lehigh.EDU
Subject: [31578] Dan's Small Parts and Kits
Message-ID: <2.2.32.19971130072252.00dbbc50@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dan has announced the 20 Meter Centennial SSB.

He has also added some more great buys to the sale!

Check it out!

<http://www.fix.net/dans.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

Date: Sun, 30 Nov 1997 00:37:08 -0700
From: "Steve Hurst" <shurst@magiclink.com>
To: <n5inz@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31579] Re: Tapes for new hams
Message-ID: <199711300734.CAA188080@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hey John ,

With a name like that , he has to be good !!! :-) :-) :-) :-) :-) :-0 :-/

73,
Steve Hurst
KA7NOC (southern Idaho)
<http://www.magiclink.com/web/shurst>
shurst@magiclink.com

> From: John M Andrews <n5inz@juno.com>
> He's gonna be a "keeper" for ham radio. I predict
> good things from Steve.
>
> Thanks, everyone.
>
> 72, John-N5INZ
>

Date: Sat, 29 Nov 1997 16:17:46 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: ki7mn@dancris.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31580] (Fwd) [CW] Is it possible to be left or right "eared" for CW?
Message-ID: <RR7wiLAqAEg0Ewqw@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <199711291440.HAA21338@dancris.com>, ki7mn@dancris.com writes
>>Date: Sat, 29 Nov 1997 07:41:22
>>To: kb0rol@juno.com (Bradley L Mugleston)
>>From: ki7mn@dancris.com
>>Subject: Re: (Fwd) [CW] Is it possible to be left or right "eared" for CW?
>>
>>At 11:35 PM 11/28/97 EST, you wrote:
>>>We could go one step further and expand on some research my cousin was
>>>doing while getting his PHd in neurological surgery.
>>>
>>>He would take new born kittens and sew one of the eye lids shut then let
>>>them learn all about the world with one eye. After they had things
>>>figured out he would close the other eye and open the first to see what

>>>transferred between the two sides.
>>>
>>>Anyone out there just learning the code?
>>>
>>
>>So, we should sew one ear shut?
>>
>72,73
>Bob KI7MN Norcal 1228, QRP-L 271, ARCI 8918, CQC 274, AKQRP 30
><http://www.dancris.com/~ki7mn>

Generally speaking, with right-handed individuals the left brain hemisphere is used for verbal and logical processing, and the right hemisphere is used for perceiving things like music. There is some evidence that different types of visual information presented to the left and right visual fields take different amounts of time to process. The same might apply to auditory stimuli like Morse code. Of course, Morse decoding probably depends on several types of processing, some using the left hemisphere and some using the right.

A friend of mine has been experimenting with DSP filtering for Morse, and uses a very sharp filter for one ear, and a broad filter for the other ear, partly because it makes the tuning easier. I'll have to ask him if he prefers a particular way round for the two signals.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Sun, 30 Nov 1997 02:43:41 -0500
From: "Daniel L. Evans" <dlevans@hsonline.net>
To: QRP-l@Lehigh.EDU
Subject: [31581] sputnik
Message-ID: <3.0.1.16.19971130024341.2f77128a@mail.hsonline.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Finally managed to catch the QRP satellite! Listened to it "beep on through" at 07:05z 11/30/97, on 145.825. I was impressed, it was about s9 plus 20db for a few minutes, and then it was gone. Probably would have been longer, but I was using the 2meter beam. It was an easy catch, I

never tried to time it's passes, just programed the frequency and left the rig on scan.

Not a complete qso but, someone want to calculate the miles/watt on that?
hi hi.

72/73 de Dan
Dan L. Evans [N9RLA].....EM78
CQ_DE_dlevans@hsonline.net

Remove the cq_de_ to email me, I hate SPAM!

Date: Sun, 30 Nov 1997 04:40:11 -0500 (EST)
From: MNHopkins@aol.com
To: QRP-L@Lehigh.EDU
Subject: [31582] Sacred SMIRK homepage QRL
Message-ID: <971130044010_-837077853@mrin42.mail.aol.com>

Increasing sunspots and a recent move make it worthwhile to point out the Six Meter International Radio Klub (SMIRK) has a new URL:

<http://6mt.com>

Same first rate by Lisa, KA0NNO et ux, however.

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58, when they were QRP but did not know it.

Michael Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@AOL.com

Date: Sun, 30 Nov 1997 08:29:53 -0500 (EST)
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [31583] N/T+ Foxhunt of 30 NOV 0000-0200 UTC

Message-ID: <971130082951_131842662@mrin86.mail.aol.com>

Great Hunt!!! I had lots of stations to hide behind but some of you still got a piece tonite. Got the DOUBLE ZEPP back up with open ladder feed this time. It seems really sensitive. Got a cross section of the country but no NE states or AK or TX. Some of you were a real challenge. I love challenges. Adds new meaning to "working" a station.....Thanks

PRELIMINARY N/T+ Foxhunt of 30 NOV 0000-0200 UTC:

TIME	STATION	NAME	STATE	RST(S)/(MY)	QRP-L	PWR
0001	KL7IXI	MIKE	WA	579/589		4W
0012	VE5WF	EARL	SK	559/559	#1076	
0015	K0EVZ	DOC	MN	559/559		5W
0037	KE0WW	MIKE	MN	559/569		5W
0040	VE5RC	BRUCE	SK	55N/22N		5W
0055	N9KW	JOHN	IL	599/599		2W
0104	NRKV	JOHN	TN	339/ ???	??	
0113	WB4EXW	WATSON	NC	33N/449	1W	
0119	KI0II	RON	CO	599/559	#928	
0125	N4SO	KEN	LA	339/449	??	
0139	N4ROA	DAN	VA	339/539		5W
0141	VE3ELA	KEN	ONT	339/439	3W	
0148	W0RW	PAUL	CO	579/579	4W	
0155	WB0T	JERRY	IA	339/549		4W

Station: KB7MBI

FREQ:..... 7.141

RIG..... EMTECH NW8020 (40M) and filter

PWR..... 5W

ANT:..... DOUBLE-ZEPP (N-S)up 50 ft

Date: Sun, 30 Nov 1997 10:29:08 -0500

From: arol1@juno.com (arol b hill)

To: qrp-l@Lehigh.EDU

Subject: [31584] Trade sportcat scanner for qrp

Message-ID: <19971130.102911.14038.1.arol1@juno.com>

Hi All

Have bearcat sportcat scanner 12 band,100 channel,portable scanner with
> charger
> and nicads,no manuel.I would like to trade for a unbilt qrp
> transciever.Something like a norcal 40a or ohr,or let me know what you

have
> interested e-mail me direct at
> arol1@juno.com
> 73'sss n1wcc arol

Date: Sun, 30 Nov 97 07:24:16 -0700
From: Russ Carpenter <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [31585] Second Reminder for the December Spartan Sprint
Message-ID: <199711301521.HAA29019@guppy.pond.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

The December Spartan Sprint will be held on December 1 (which is our standard date--the first monday of the month). We will be operating on two bands--80 and 40. DON'T WORRY IF YOUR STATION IS A BIT TUBBY. WE COMMEND THE WINNERS IN TWO CATEGORIES--POINTS, AND POINTS PER POUND.

If you are a newcomer to the Sprints, take a look at the introductory material at the end of this post.

1. Start at 9:00 PM EST, 8:00 CST, 7:00 MST and 6:00 PST.
Finish at 11:00 PM EST, 10:00 CST, 9:00 MST and 8:00 PST.
2. The frequencies will be 3560+- Khz and 7040+- KHz. (You may operate one or two bands--your choice.)
3. Exchange RST, SPC (state, province or country) and power output.
4. If you choose to call CQ, use the format "CQ SP".
5. You can take credit for working the same station on a second band.
6. As of this Sprint, we're switching to a simpler scoring system. You will get one point for each contact on any band.

After the contest, send Russ Carpenter, AA7QU, an e-mail with your total QSOs and the total weight of your station (i.e., the combined weight of the transmitter, receiver, key, keyer and battery). You may also include your comments from the soapbox. Russ' email address is russ@natworld.com.

As an alternative, you can use our automated Spartan Sprint report at the ARS web site. Just fill in a few boxes, click the "submit" button, and you're done! You can get directly to the report page with this URL:
http://www.natworld.com/ars/events/spartan/submit_spartan.html. Or you

can take a more leisurely (and rewarding) stroll through the ARS site by going to the home page at <http://www.natworld.com/ars>.

The Spartan Sprint is based on a simple but stimulating concept. We are encouraging all of you to cobble together the kind of station you'd use in a portable environment--lightweight transceiver, keyer, key, and battery. Then put that turkey on the air, and participate in a two hour sprint.

All operators are invited to play, whether or not they are members of Adventure Radio Society. Even if you don't have lightweight equipment, your participation will be rewarding, both for you and the other participants. We'll report the score in two different formats--absolute scores, and points per pound of station weight. So you can get your kicks from running up a magnificent score, or achieving an remarkable ratio of points per pound.

ARS provides handsome certificates to the operators who achieve the top two scores in points, and points per pound.

If you're thinking about becoming a member of Adventure Radio Society, just send Richard Fisher (our membership chairman) an e-mail expressing your interest. Richard's e-mail address is KI6SN@juno.com. Membership is free, and the organization has a great group of men and women who combine their love of ham radio with their affection for the outdoors. You don't need to be a macho person; ARS welcomes people of all ages and levels of ability.

72, Russ Carpenter, AA7QU, Contest Manager
russ@natworld.com

Date: Sun, 30 Nov 1997 10:23:27 -0500 (EST)
From: N9YAI@aol.com
To: qrp-1@Lehigh.EDU
Subject: [31586] Pixie II
Message-ID: <971130102326_1380330887@mrin46.mail.aol.com>

Hello Gang,

I keep hearing about this Pixie II. Can anyone please tell me where i can get this little unit or anything about it.

Thanks and 73's

Date: Sat, 29 Nov 1997 16:23:51 -0000
From: George Dobbs <g3rjv@gqrp.demon.co.uk>
To: qrp-1@Lehigh.EDU
Subject: [31587] Regenerative Receivers
Message-ID: <01bcfce3\$2e2e6720\$LocalHost@kcubkvql>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have not followed the whole thread on TRF type receivers
List members may like to look at Nicky's TRF
from SPRAT 70.
Without doubt the most stable and successful TRF
I have ever built.
It was inspired by the very interesting minimal 40m station
of G3RJT [not RJV!]
This transceiver circuit was printed on the back
of his QSL card.
For those who can handle attached files I will add it onto
another mailing titled G3RJT QSL.

Keep your soldering iron hot....
George Dobbs G3RJV
g3rjv@gqrp.demon.co.uk
The G QRP Club

"It is vain to do with more
what can be done with less"
William of Occum

Date: Sat, 29 Nov 1997 16:30:24 -0000
From: George Dobbs <g3rjv@gqrp.demon.co.uk>
To: qrp-1@Lehigh.EDU
Subject: [31588] G3RJT QSL
Message-ID: <01bcfce4\$185b2220\$LocalHost@kcubkvql>
MIME-Version: 1.0
Content-Type: multipart/mixed;
 boundary="-----_NextPart_000_0005_01BCFCE4.185B2220"

This is a multi-part message in MIME format.

-----_NextPart_000_0005_01BCFCE4.185B2220
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

The receiver portion [right]
inspired the Nicky TRF
of SPRAT 70

It is virtually a crystal set, based on the FET
with The NPN device providing an oscillator
rather in the manner of the IF injection oscillators
in tube [valve] IF stages to increase selectivity.
For those of us who remember such things !!
The Drake 2B used the same idea to great effect.
A 10 turn pot helps in the adjust control.

George Dobbs G3RJV
with more
g3rjv@gqrp.demon.co.uk
with less"
The G QRP Club
William of Occum

"It is vain to do

what can be done

-----=_NextPart_000_0005_01BCFCE4.185B2220

Content-Type: image/jpeg;
name="G3RJTQSL.jpg"
Content-Transfer-Encoding: base64
Content-Disposition: attachment;
filename="G3RJTQSL.jpg"

[ARCHIVIST's NOTE: A 326 Kb INCONSIDERATE attachment was deleted in self-
defence.]

-----=_NextPart_000_0005_01BCFCE4.185B2220--

Date: Sun, 30 Nov 1997 12:37:37 -0500
From: beacon_wb8ygg@juno.com (Bradley S. Mitchell)
To: qrp-l@Lehigh.EDU
Cc: wb8ygg@juno.com
Subject: [31589] Turkey Day Beacon
Message-ID: <19971130.123740.4614.3.Beacon_WB8YGG@juno.com>

It was fun.
Here's the roundup of people that reported hearing my beacon.
40 meters: 350 mw.

Name	Callsign	Time/Date	Heard
RST	Code Word	Equipment	
Joel Malman	WA1QVM	1504z, 11v 27	559

FULL QRP+ G5RV at about 40 foot.
 Jim N2JJ 1514/11/27 559

FULL TS-830S & Vertical(30M)
 Keith WB2VUO 1537/11/27 329-549

FULL
 Rick WZ2T 1526UTC
 11/27/97 579 FULL Kenwood TS940, 40M Delta Loop
 2034UTC

11/27/97 599 Full @ 60 feet
 Ken VE3ELA 16:04 Nov.27/97
 539 full Heathkit HW-9, random wire 25 ft. high
 Ken K1XS 1655Z 11//27 439 w/qsb

FULL FT-840 135' dipole @33'
 John KB2SIL 1915 UTC 579
 FULL RX - Icom IC-735 Ant - G5RV

Jack w0hz
 2030 FULL size 3 el yagi at 90 ft on a big
 berth rotating tower

Hope I got everybody.,
 73 Brad WB8YGG

 Date: Sun, 30 Nov 1997 22:43:01 -0700
 From: gsurrency@juno.com (Gary Surrency)
 To: adamsclan@netgate.net
 Cc: qrp-l@Lehigh.EDU
 Subject: [31590] Re: Need a regen schema
 Message-ID: <19971130.230456.3462.1.gsurrency@juno.com>

There is a regen receiver in the 1995 Handbook. It may in later Handbooks as well.

72,

AB7MY
 Gary Surrency
 Chandler, AZ (Near Phoenix), QRP-L #571, AZ ScQRPions, ARRL VE

Date: Sun, 30 Nov 1997 12:01:09 -0700
From: "Steve Hurst" <shurst@magiclink.com>
To: <qrp-1@Lehigh.EDU>
Subject: [31591] Fox 2 night ??
Message-ID: <199711301859.NAA197394@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang,

Are there going to be two foxii up to bat tonight ??? TNX

73,

Steve Hurst

KA7NOC (southern Idaho)

<http://www.magiclink.com/web/shurst>

shurst@magiclink.com

Date: Sun, 30 Nov 1997 02:04:22 -0500
From: Paul Helbert <phelbert@rica.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31592] Mag wire and torroid questions
Message-ID: <34810FF6.C1FEA5E0@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hey Gangue,

I have a question about magnet wire and the instructions I see in kits. Most say to "carefully scrape" the insulation from the ends of the wire after the torroid is wound. I've been using a bic butane lighter to burn it back, then a rubber eraser (the same eraser I use on all the tinned leads before soldering) to remove the residue. I usually peel back one turn from each end before doing the lighter trick, then rewrap it. Is there some precaution I ought to be aware of which explains why kit writers do not mention this method? Seems to me that the knife or sandpaper nicks and weakens the wire. Sure the heating and cooling anneals it, but it's work hardened by then anyway and maybe needs a bit of softening?

Next question: How tightly should one try to wind coils on torroids? I

recently had some 24 ga wire break while making turn 29 of 33 in the last torroid of a kit (L8 in the LDG QRP auto tuner), and only luckily found a scrap of that size in the junkbox. I was winding by hand (no mechanical advantage) but was trying to get it really tight as two torroids were being held together by the winding.

Last question: I have a torroid (37-2) which got way too hot. It was the rf

choke for the final in my 5 watt 38 Special, and when the final shorted, the battery shorted through the winding. It looked like a toaster element after the smoke and flames died down. The rig is okay now (and properly fused). All the paint roasted off the torroid, but it cleaned up okay and I put it in a labeled plastic bag (good ol' junkbox had a spare.) Is it probably safe to assume that it is still okay to reuse? The paint is just for identification, right? Is the value of the mix still probably okay?

Any and all insight appreciated, including those concerned with rodents and the lesser fur bearers.

SYOR,

Paul, Wv3j

Date: Sun, 30 Nov 1997 13:51:39 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: gsurrency@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [31593] Re: Need a regen schema
Message-ID: <3481C3CB.3356@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gary Surrency wrote:

>
> There is a regen receiver in the 1995 Handbook. It may in later Handbooks
> as well.

It is in the new 1998 Handbook also.
de Dave, N0IT

Date: Sun, 30 Nov 1997 15:19:07 -0500
From: N4JS <n4js@pobox.com>
To: qrp-l@Lehigh.EDU
Subject: [31594] OHR100A
Message-ID: <v03110701b0a77a3ed584@[206.106.174.44]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Read Chuck's review with interest. I recently copleted a 15M OHR100, and started a 20M OHR100A. I don't believe the 100A is available in 15M version as yet.

The 100A is quite a bit easier to build than the 100, because of the on-board jacks, etc.

 / _/_ _/_ _/_ _/_ _/_/_/_ John L. Sielke
n4js@pobox.com
 //_ _/_ _/_ _/_ _/_ _/_ n4js@qsl.net NJ
Grid:FM29LN
 / _/_ _/_ _/_/_/_ _/_ _/_/_ http://www.qsl.net/n4js
NJ-QRP #57
 / _/_/_ _/_ _/_ _/_ _/_ QRP-L #884 QRP-ARCI
ICQ# 3789653
 / _/_ _/_ _/_/_ _/_/_/_ QCWA CQrp CQC ARS
#243 FISTS #2781
 G-QRP #9544 Norcal #1989 ARQrp, AKQrp Formerly: K3HLU, W7JEF, W4MPC,
TF2WKT

Date: Sun, 30 Nov 1997 15:14:49 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:shurst@magiclink.com" <shurst@magiclink.com>, "Doc W.D. Lindsey/
K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [31595] Fox 2 night ??
Message-ID: <199711301518_MC2-2A24-7906@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Steve:

Two N/T+ have announced they will be on tonight:

KB0VRV Tim = 0100-0300Z @ 7.140. Speed +/- 8 wpm.

KB7MBI Alan = 0200-0400Z @ 1.021 or 7.145.

Good luck and good hunting. Both of these guys are fine operators, and improving with each session.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 11/27/97 14 of 17. The FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Sun, 30 Nov 1997 15:24:55 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: phelbert@rica.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [31596] Re: Mag wire and torroid questions
Message-ID: <3.0.1.32.19971130152455.00aaed30@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Paul...

You're going to get a variety of answers to the question about enamel removal... everyone has his own favorite technique for enamel removal; but if the wire, after you finish is: 1) not breaking (but very rarely); 2) taking solder when you tin it... then whatever method you choose is OK. Personally, I prefer the 'careful-scrape-on-a-hard-surface-with-a-fresh-Exacto-knife' method myself. Whether you knick it or literally melt it (as I tend to do) as long as you don't have problems with it breaking-vaporizing isn't good either-it's

probably OK. I DO use a hi-mag eyepiece when scraping-seems to provide better anti-knick feedback to my hands, and shows any serious knicks when finished.

I do not like the extra wire... it may not hurt, but I try and use no more than a quarter inch of
 ** extra ** wire at most to connect to whatever... solder hole or terminal.
 Just enough for a little slack. In truth, I doubt that at HF frequencies it matters much-the inductance of a straight wire being no more than it is (at HF.) I just don't think it's a good construction practice.

If you are winding wire on a toroid hard enough to break it, you're winding it way-y-y too tightly. The gaps between wire and toroid DO matter, but with small diameter wire (#14 & larger is going to have some gaps-it just won't fully conform itself to the contour of the toroid well enough not to) you should be able to get it on there tightly enough without ** EVER ** breaking a wire. Back off.

As far as two toroids together are concerned, you skipped step one: superglue is perfect to hold the two together. I had a pretty good running discussion with someone recently regarding the use of superglue... and it was his contention that there were no uses for it that other adhesives wouldn't do better. We politely disagreed. This is a particularly good example where the very thin layer it becomes is perfect-for the closer the two toroids, the better.

Throw away the overheated toroid. It's characteristics have very likely been permanently altered. Bet that was fun to watch.

Now what I want to know, is where can I get some 1 lb rolls of GREEN magnet wire? I have LOTS of 'red' but would like some for baluns and the like to help pick out the various wires. Perhaps someone reading this will have a suggestion.

73

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS:	QRP	BoatAnchors	Test Equipment	Photography
CW: 99.9%		Mercury Paddle # 0214		QRP or 90W: 95%

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Sat, 29 Nov 1997 22:49:48 (-050)
From: "Dean T. Miller" <dtmiller@dsmnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [31597] Re: Solar Flare - The novel / emp
Message-ID: <199711302026.0AA04514@dsm7.dsmnet.com>

Hi Leon,

> From: Leon Heller <leon@lfheller.demon.co.uk>

> Current military radios, like the new Bowman system for the British Army
> that I have worked on, don't need any special precautions to withstand
> an EMP, as I recall.

Do you have any idea what the general technique is to stop the EMP effects?

I'd like to try various things to help cut damage from nearby lightning strikes. I have already stopped using direct connection to the AC power lines, but I don't always remember to disconnect my antennas. :)

-- Dean -- from Des Moines (KB0ZDF)

Date: Sun, 30 Nov 1997 12:27:00 -0800
From: W7LS <w7ls@blarg.net>
To: qrp-1@Lehigh.EDU
Subject: [31598] Yaesu auto t;uner 4 sale/swap
Message-ID: <3481CC14.6C59@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, gang. I have a Yaesu FC-757AT automatic antenna tuner for sale or swap. Runs on 12 volts. I have the cables, too. Book, as well. Made to mate directly with the FT-757GX transceivers, but will work with anything, including qrp powers. Covers 160-10 meters. Has a built in dummy load, 5 position antenna selection, yada, yada, yada....

Nice condx and works fine. \$175 or swap for some qrp goodie.

73 de Jim, W7LS 425-788-9027

Date: Sun, 30 Nov 1997 15:30:45 -0500 (EST)
From: MNHopkins@aol.com
To: QRP-L@Lehigh.EDU
Subject: [31599] Kitchin Regen RX of Handbook
Message-ID: <971130153045_1706144633@mrin47>

The regenerative receiver in the '95 and presumably following ARRL Radio Handbooks is also treated in a first-rate essay in Communications Quarterly, Fall, 1995 p 7-26.

The Communications Quarterly treatment is historic as well as technical and even shows some RTTY that was received with the device.

To summarize the findings of Kitchin, N1TEV, the keys to successful regenerative receiver building are two:

1. Use a FET RF amp and detector
2. Use the "throttle capacitor" method of controlling feedback.

Point #2 is echoed by Rockey, W9SCH, in Secrets of Homebuilt Regenerative Receivers from Lindsay Publications, # 21720

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
Michael Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@AOL.com

Date: Sun, 30 Nov 1997 12:25:31 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <ka8okh@som-uky.campus.mci.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [31600] Re: KA80KH Fox Log
Message-ID: <199711302113.PAA27320@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Wow! Nice work, Rich!

Smooth operation the whole time. Phenomenal number of pelts given out.

I think you've set a new fox record!

Mike K1MG

Date: Sun, 30 Nov 1997 16:15:00 EST
From: kt3a@juno.com
To: adams@chuck.dallas.sgi.com
Cc: qrp-l@Lehigh.EDU
Subject: [31601] Re: 17M Nov 29, 1997
Message-ID: <19971130.161159.5415.8.kt3a@juno.com>

Chuck,
Code speeds are up. I think they are all robots.
The rig/contest software lock in on the signal,
check the log, work the info, and boom dada boom,
instant Q. No fun for me. I was surfing the WARC
bands, thank God for the WARC bands/high solar flux/no flares.

Cameron C.R. Bailey <><
Amateur Radio, KT3A, QRP-L #7
kt3a@juno.com
Mount Wolf, Pennsylvania

Date: Sun, 30 Nov 1997 16:30:31 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: cw@qth.net
Cc: boatanchors@theporch.com, QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [31602] It's alive!!! It's alive!!!
Message-ID: <3.0.1.32.19971130163031.00abfb90@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The Signal One CX-7A will (FINALLY) be ready for QSO's later this evening,
starting around 2000 EST in the vicinity of 7.018 MHz... who will be my
very first CX-7A QSO? Will also try 7.042 a little later. Novice QSOs by
request.

Seriously, everything LOOKS fine. Need to wire a speaker cable, but
otherwise, things looked and sounded great! Simultaneous 2-freq. receive

Subject: [31604] 2N2 - DSB radiation in VA!
Message-ID: <Pine.A32.3.93.971130165736.40410A-1000000@weyl.math.Virginia.EDU>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanksgiving break is nearly over. I should have spent my spare time shooting lines into trees to get my 80 m antenna up off the ground. But NO! I've turned into a 2n2222 nut case.

For a long time, I've wanted to build one of those simple double sideband transmitters I've seen in the QRP NOTEBOOKS, SOLID STATE DESIGN and elsewhere. The 2n2222 competition seemed like a great opportunity.

I decided to start with a final amplifier. If I could get a watt of output with 2n2222s, I might have a fighting chance of making some phone contacts. And if I couldn't get the dsb circuits to work, at least I could drive the amp with an oscillator, and work cw!

I imitated the final amplifier for the WA7MLH dsb transceiver, described on p. 202 of SOLID STATE DESIGN, replacing the D44C6 transistor with paralleled 2n2222s. I started with four 2n2222s in parallel. Each 2n2222 has a separate 10 ohm emitter resistor to ground (didn't have the 1 ohm resistors W1FB recommends). A 510 ohm resistor connects the collector and base, and a 100 ohm resistor was placed between base and ground. With an ammeter in line with the collector, I measured 250 ma (and rising!) idling current, and noted that the 2n2222s were becoming quite hot. With a 100 ohm collector resistor inserted into the circuit, the transistors were still quite hot, so I added four more transistors, for a grand total of EIGHT parallel 2n2222s. Now the transistors were much cooler, and the idling current stabilized. I dropped the collector resistor down to 50 ohms, and the idling current rose to a steady 150 ma. The transistors are warm, so I furnished them with heatsinks made from desoldering braid. They are all mounted in sockets. I have plenty of spares!

To drive the final, I decided to build a copy of the LINEAR RF AMP that W1FB uses at the end of the dsb generator he displays on p. 139 of the QRP NOTEBOOK. With a crystal-controlled 2n2222 oscillator connected to the the input of the driver, I measure about a watt of output from the final.

Convinced that I could actually produce enough RF to be heard, it was time to begin construction of the audio and modulator circuitry.

I found a mike preamp circuit in an old copy of UNDERSTANDING AMATEUR RADIO, and soldered an electret mike element to the input.

My past experiences with homebrew balanced modulators had been disappointing. I hadn't been able to detect ANY carrier suppression. My guess was that the modulator hadn't been adequately isolated from the oscillator. This time I put the modulator on a separate board, and used miniature coax to join them. Presto! A dramatic dip in carrier strength (from 10 db over 9 to S6 on my ricebox meter) occurs as the balance pot is adjusted.

I could hear audio in my ricebox, but not even a trace of wiggle in the power meter, and no hint of feedback, even with the electret mike element a foot away from the ricebox speaker. So I inserted another driver stage (exactly the same circuit) between the driver and the final. Now I got plenty of feedback, but still no needle wiggle from the power meter. OK, how about ANOTHER copy of the driver stage? (In fact, W1FB daisy-chains four of these amplifiers to form a broadband amplifier strip on p. 135 of the QRP NOTEBOOK.)

With three driver stages, I got needle wiggle! Maybe half a watt of double sideband, with carrier definitely suppressed. I'll bet I can get the output up a little. Maybe I can squeeze a little more out of the final ... or maybe add ANOTHER driver stage.

This is great! I can hook up that vfo from another project (OK, it has an FET in it, but this is just temporary) and use my ricebox on receive. Gotta get outside and get that antenna back up in the air.

Hey! Look at all those LEAVES! Uh oh ...

72, Ralph N7RI
Charlottesville VA

Date: Sun, 30 Nov 1997 16:55:00 EST
From: Wa2eaw <Wa2eaw@aol.com>
To: sct@po.cwru.edu, qrp-1@Lehigh.EDU
Subject: [31605] Re: What antenna tuner topology? (beginner's question)
Message-ID: <51dbe34b.3481e0b6@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Stephen;
I have the same problems as I am in a condominium that restricts the placing of out side "anything".
If you are going only to work only QRP I imagine that the tuner is going to

absorb some power. If you must use a tuner then you have all the parts needed. Go to the Handbook and see which configuration is best for you; either series or parallel tune.

I think that a parallel inductor and capacitor is what you will end up with.

>From that point its cut and try.

If the "short" long wire can be held away from the side of the house and you have a reasonable ground available, that may be your easiest starting point. A dipole cut for 40m is a bit long but will take care of 30m also. It will be hard to put up and take down every night.

72/73 and good luck.

Bob...WA2EAW

Date: Sun, 30 Nov 1997 17:02:02 -0500 (EST)
From: Rich Mulvey <mulveyr@frontiernet.net>
To: qrp-1@Lehigh.EDU
Subject: [31606] Suggestions for window feed-throughs?
Message-ID: <XFMail.971130170744.mulveyr@frontiernet.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

Hi All:

Now that I have entirely too many coax and ladder-lines coming into my basement, I'm trying to come up with a better feed-through material.

Currently, I have replaced the glass on one of my swing-out basement windows with Lexan, and have a bunch of SO-239 bulkhead connectors for the feed-throughs. Unfortunately, the Lexan tends to crack when cold, under moderate stress (Like when I start moving patch cables around...)
Anyhow, I'm looking for at least one of the following:

- o A source of *THICK* Lexan sheets (Where thick $\geq 1/4"$)
- o A replacement material that is clear (translucent is OK, though.) and can stand up to a fair amount temperature extremes, and can be drilled.

Any suggestions?

- Rich

--

Rich Mulvey
mulveyr@frontiernet.net
http://www.frontiernet.net/~mulveyr
Amateur Radio: aa2ys@amsat.org, aa2ys@wb2wxq.#wny.ny.usa

Rochester, NY USA

Date: Sun, 30 Nov 1997 14:35:43 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: kt3a@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [31607] Re: 17M Nov 29, 1997
Message-ID: <Pine.SUN.3.90.971130143207.5642C-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 30 Nov 1997 kt3a@juno.com wrote:

> Chuck,
> Code speeds are up. I think they are all robots.
> The rig/contest software lock in on the signal,
> check the log, work the info, and boom dada boom,
> instant Q. No fun for me.

Hi Cameron

At least we still have to copy what the call is!

Got my rotor changed and worked a few new ones!

Speeds are faster than SS. No real exchange in WW.

If you want a contest that will challenge you, try
the NA Sprint this Feb!! :-)

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sun, 30 Nov 1997 16:50:56 -0600 (CST)

From: William Wyatt <wbw95k@timon.acu.edu>
To: qrp mailing list <qrp-1@Lehigh.EDU>
Subject: [31608] Few questions
Message-ID: <Pine.BSI.3.95.971130164817.9103A-100000@timon.acu.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

1. Has anyone built the NW80 kit that is advertised on Dan's small part page. This, if bought, would be my first kit so any suggestions would be appreciated. The price is \$50 down from \$80, good deal.
2. This isn't QRP related but -- Are there any good parts that could be salvaged from a broken computer modem. I think one of the chips is bad since the modem doesn't work but the power comes on and the display shows garbled crap.
Thanks for the help to a new ham.

| | | | wbw95k@timon.acu.edu
| | | | William Wyatt
| /\ | | /\ | KC5ZGH <--Tech Plus
|/ \ | | / \ | 1 Corinthians 13:13
<http://timon.acu.edu/~wbw95k>

Date: Sun, 30 Nov 1997 18:53:14 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-1@Lehigh.EDU>
Subject: [31609] Re: KA80KH Fox Log
Message-ID: <Pine.LNX.3.93.971130183842.1001A-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 29 Nov 1997, Rich Dailey, KA80KH wrote:

> 33 N3XRV 0133 599 MD CHRIS 655

Yeeehaaa! Fox number deux! I'm on a roll now:) Thanks Rich, and you really were 599, about an S8 on the meter. You were "down there" in the early going, but built quickly. To make the filters a little more effective I even kicked in the attenuator on the 735, never did that fox hunting before. Maybe I should relabel that the "fox" button...

> 34 K0EVZ 0135 589 MD DOC 861

And much as we'd like Doc to be in MD, I think you added a dit here. Unless the "buyout" has gone through <wink, wink> I think he's still in

MN. Hey, even CA couldn't come up enough "incentives" to get him to move during the early draft season... 72

```
-- Chris Cartwright,   Technical Engineer   |       ccart@vidtel.com       --  
-- N3XRV      ARRL-VE   QRP WAS 27/10(w/c)  | http://dns.vidtel.com/~ccart  --  
-- QRP-L #655   NORCAL #1891   QRP-ARCI #???? NJ-QRP #105   LIQRP #????  --
```

Date: Sun, 30 Nov 1997 18:14:21 EST
From: nilsbull@juno.com
To: qrp-l@Lehigh.EDU
Subject: [31610] Re: (Fwd) [CW] Is it possible to be left or right "eared" for CW?
Message-ID: <19971130.185729.6919.1.nilsbull@juno.com>

Gang,

Many moons back I bought one of those "optimal" filters from MFJ. It had a LM380 output, which drove speakers well enough (although the input was line level . . . after I modified it). One of the back-of-the-box holes was for a stereo headphone. That allowed the user to hear the unfiltered signal on one side and the filtered signal on the other.

Some postings a short while ago dealt with the need for some sort of background noise to bring a processed signal into the "open" for hearing. The white box on a white field cognition trick. Anyway, I'd bet that (a) the right/left brain deal has something to do with that too and (b) the stereo headphone deal is a simplistic extrapolation on the signal-versus-background cognitive set up.

Ain't too sure about the blinded in one eye cat scenario though. Don't let PETA know. You'd have visitors from completely different universes badgering you bigtime hurry-up.

And there's so much involved in Morse anyway (logic, timing, auditory literacy, tone, end-and-start of element and element-vs-letter-vs-word spacing) that it's probably one of the most brain intensive comm methods --other than language, which has a lot of the same elements in its transmission/reception/information recovery as Morse does.

Interesting concept. Dissertation material, I'd bet.

73

Nils

WB8IJN &c

. . . and how much of language is music? . . . like tones in Chinese or

Hausa or one of the dialects of Basque? . . . or with people who say they can't carry a tune in a plastic Meijer's bag?

Date: Sun, 30 Nov 1997 18:33:37 -0500
From: Hal Maney <maney@ridgefield-ct.com>
To: qrp-1@Lehigh.EDU
Subject: [31611] Re: Few questions
Message-ID: <3481F7D1.463DC1E0@ridgefield-ct.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

William Wyatt wrote:

>
> 1. Has anyone built the NW80 kit that is advertised on Dan's small part
> page. This, if bought, would be my first kit so any suggestions would be
> appreciated. The price is \$50 down from \$80, good deal.

I am also interested in this.

> 2. This isn't QRP related but -- Are there any good parts that could be
> salvaged from a broken computer modem. I think one of the chips is bad
> since the modem doesn't work but the power comes on and the display shows
> garbled crap.

If the modem has a nice extruded aluminum case (ala Hayes), it makes a great cabinet for a QRP rig.

> Thanks for the help to a new ham.

It's always great to hear from a new ham.

>
> | | | | wbw95k@timon.acu.edu
> | | | | William Wyatt
> | /\ | | /\ | KC5ZGH <--Tech Plus
> |/ \ | |/ \ | 1 Corinthians 13:13
> http://timon.acu.edu/~wbw95k

--

Harold D. Maney, K1HM
maney@ridgefield-ct.com
203-431-9329

End of QRP-L Digest 925
